

ABSTRACT

The present invention provides an electrode made of carbon nanotubes or carbon nanofibers and a process for preparing the same. The electrode comprising a current collector, sulfur or metal nanoparticles as a binder, and carbon nanotubes or 5 carbon nanofibers is characterized in that the sulfur or metal nanoparticles are bonded, deposited, or fused on the surfaces of the carbon nanotubes or carbon nanofibers so that the carbon nanotubes or carbon nanofibers are bonded to each other and also bonded to the current collector. The electrode prepared according to the present invention exhibits low internal resistance, strong durability and low equivalent series resistance, 10 and therefore the electrode can be effectively used for secondary batteries, supercapacitors or fuel cells.

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